

WHAT IS CLAIMED IS:

1. A method of manufacturing a lamp comprising a reflector, the reflector including a heel portion and a nose, the lamp further comprising a light source disposed in the reflector, a pair of leads connected to the light source, a pair of eyelets each having a flanged portion protruding through an opening in the nose and a positioning member disposed in the heel portion of the reflector, the method comprising the steps of:
  - positioning the light source inside an opening in the positioning member;
  - inserting the eyelet into the opening in the nose such that a portion of the eyelet extends from the outside surface of the nose;
  - deforming the eyelet such that the eyelet is fixed in the opening of the nose;
  - inserting the light source and positioning member into the reflector such that at least one lead protrudes through the eyelet; and
  - crimping the eyelet to mechanically fasten the lead to the outlet without putting the lead in tension.
2. The method of claim 1, wherein the positioning step further comprises the step of positioning the light source such that tabs located on opposite sides of the opening engage the light source.
3. The method of claim 1, wherein the step of inserting the eyelet further comprises inserting the eyelet into the opening of the nose from inside the reflector.
4. The method of claim 1, wherein the eyelet deforming step further comprises the step of swaging the eyelet such that the eyelet engages the opening in the nose.
5. The method of claim 1, wherein the eyelet deforming step further comprises deforming the eyelet such that the eyelet is fixed in three mutually perpendicular axes.
6. The method of claim 5, further comprising inserting the heel into a lamp base and brazing at least one of the leads to the lamp base.

7. A lamp comprising:
  - a reflector housing including a reflective portion, a heel portion and a nose, wherein the nose includes an opening;
  - a light source disposed in said reflector housing;
  - a pair of leads connected to said light source;
  - an eyelet protruding completely through the opening in the nose and receiving one of said leads; and
  - a positioning member disposed in the heel portion of said reflector, said positioning member including an opening, the opening receiving said light source.
8. The lamp of claim 7, wherein said eyelet includes a tubular portion and a flange, wherein the tubular portion has substantially homogenous strength characteristics throughout the length of the tubular portion.
9. The lamp of claim 7, wherein said eyelet includes a tubular portion having a first end, a second end and a flange at the first end of the tubular portion, wherein the tubular portion comprises a wall having a substantially uniform thickness from the first end to the second end.
10. The lamp of claim 7, further comprising a shoulder protruding inwardly from a wall of the heel portion, wherein said positioning member rests on said shoulder.
11. The lamp of claim 10, wherein said positioning member rests on said shoulder with no greater force than the weight of said positioning member, and said light source.
12. The lamp of claim 7, wherein the opening in the nose has a first diameter at a surface of the nose facing the reflective portion and a second larger diameter at a surface facing away from the reflective portion.
13. The lamp of claim 7, wherein said eyelet includes a swaged portion engaging said nose.

14. The lamp of claim 7, wherein said positioning member includes a pair of tabs positioned on opposite sides of the opening in the positioning member, wherein the tabs engage the light source.

15. The light source of claim 7, wherein said positioning member consists essentially of aluminum.

16. A lamp comprising:  
a reflector housing;  
a light source disposed in said reflector housing;  
a pair of leads extending from said light source;  
a positioning member including an opening, said positioning member receives said light source in the opening wherein said positioning member is adapted to be received in said reflector housing to axially align said light source in said reflector housing; and  
a shoulder disposed in said housing, said positioning member resting on said shoulder wherein said shoulder is adapted to vertically align said light source in said reflector housing.

17. The lamp of claim 16, wherein the reflector housing includes a nose and said shoulder extends upwardly from said nose such that said positioning member aligns said light source in said reflector housing with no greater force exerted by said positioning member on said shoulder than the weight of said positioning member and said light source.

18. The lamp of claim 16, wherein said reflector housing includes an opening and further comprising an eyelet protruding through an opening in the reflector housing, wherein the eyelet includes portions extending out of each side of the opening.

19. The lamp of claim 18, wherein said eyelet includes a flange that rests on a first side of said reflector housing and a swaged portion that engages a second side of said reflector housing.